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### FACSIMILE TRANSMITTAL

#### TO

Name: Examiner Shiao

Company: U.S. Patent and Trademark Office Fax Number: 571.273.0707

Subject: U.S. Patent Application 10/734,301

Date: June 18, 2009

Phone Number: 571,272,0707

Total Pages (including cover):

Confirmation Copy to Follow:

#### FROM

Name: Kimberly D. Smith Phone Number: 202,408,4265 Verified by: K. Smith/MD700 Our File No.: 05725.1324-00000

### CERTIFICATE OF TRANSMISSION UNDER 37 CFR § 1.8

I hereby certify that the attached Submission of Corrected Drawings is being submitted by facsimile transmission to the U.S. Patent and Trademark Office on June 5, 2009.

> Kimberly D. Smith Reg. No. 63,219

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PATENT Attorney Docket No. 05725.1324-00000

# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	)
Nathalie MOUGIN	) Group Art Unit: 1626
Application No.: 10/734,301	) ) Examiner: SHIAO, Rei Tsang
Filed: December 15, 2003  For: COSMETIC OR DERMATOLOGICAL COMPOSITION COMPRISING AT LEAST ONE GRADIENT COPOLYMER, MAKEUP COMPRISING THE COSMETIC OR DERMATOLOGICAL COMPOSITION AND COSMETIC METHOD USING THE COMPOSITION	) Confirmation No.: 2481
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Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Entered 6/18/09 R.S.

Sir:

## SUBMISSION OF CORRECTED DRAWINGS

Further to the telephone conversations with Examiner Shiao on May 14, and June 3, 2009, and in reply to the Office Communication mailed May 21, 2009, Applicant encloses herewith four (4) corrected drawing replacement sheets corresponding to the drawings located at pages 43, 44, 48, and 54 of the as-filed specification. In the Office Communication, the Office required a description of the drawings on pages 9, 13, 43, 44, 49, and 54 under 37 C.F.R. § 1.81. In the telephone interview with Examiner Shiao on May 14, 2009, the Examiner and Applicant's representatives agreed that there was

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sufficient description for the drawings located on pages 9 and 13, and thus, corrected figures did not need to be submitted for these pages. With respect to the drawings located on pages 43, 44, 48, and 54, Applicant submits herewith the appropriate replacement sheets, which include sufficient description for each drawing (i.e., labels for the "x" and "y" axes). No new matter has been added by the labeling. Accordingly, Applicant thus respectfully requests that the corrected drawing replacement sheets be entered.

In the Office Communication, claim 78 is objected to as containing a typographical error. In the telephone interview with Examiner Shiao on June 3, 2009, the Examiner stated that he would correct the typographical error, and that Applicant was not required to submit an amendment.

If for any reason the corrected drawing replacement sheets do not comply with the pertinent statutes and regulations, please so advise Applicant's representatives.

If there is any fee due in connection with the filing of this paper, please charge the fee to our Deposit Account No. 06-0916.

Respectfully submitted,

FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P.

Dated: June 18, 2009

By: Simbord D. Smith Kimberly D. Smith Reg. No. 63,219

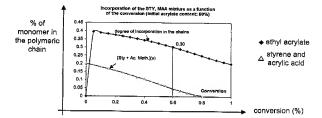
Attachments: Four (4) pages of corrected drawing Replacement Sheets corresponding to the drawings located at pages 43, 44, 48, and 54

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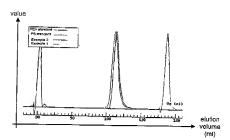
[0155] The validity of this model was provided by monitoring the relative concentrations of the three monomers by gas chromatography and NMR analysis of the polymers.

[0156] Using these methods, it was found that at 60% conversion, the final chemical composition of the copolymer was as follows (wt%): 68.4% ethyl acrylate, 16.1% styrene and 15.5% methacrylic acid according to NMR on the calculated curve (69%).



[0157] Using LAC, the trace of the polymer showed the low polydispersity of the chemical composition of the chains.

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[0158] Measurement of the molecular weights by steric exclusion chromatography lead to the following results:

[0159] Mn was equal to 32,140 g/mol and Mw was equal to 51,700 g/mol, hence the polydispersity index Ip was equal to 1.6.

[0160] The composition dispersity (or w) was 1.6.

[0161] The following was a possible schematic representation of the copolymer that was obtained:



wherein the darkened units denote the styrene/methacrylic acid linkages, and the white units denote the ethyl acrylate linkages.

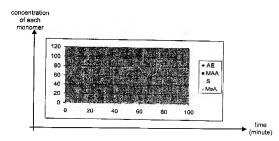
## Example 2: Bulk synthesis of gradient copolymer

[0162] Following the procedure described in example 1, various copolymers were prepared from the following mixture of reactants:

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- EA: ethyl acrylate
- MeA: methyl acrylate
- S: styrene
- MAA: methacrylic acid
- \* the total residual content was calculated taking into account the solvent, quantified by the solids content.

[0174] it was noted that each monomer was present throughout the reaction. The gradient determined for each monomer could then be calculated, and gave the following curves:



[0175] The final composition of the copolymer was as follows:

- ethyl acrylate: 34% by weight

- methyl acrylate: 34% by weight

- styrene: 16% by weight

- methacrylic acid: 16% by weight

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[0193] Thus, a system obtained with a gradient copolymer, even when used at high concentration, was thinner (low viscosity at rest) than that obtained with a chemically equivalent diblock, used at a far lower concentration.

